CLAIMS:

- 1. Equipment for producing carbonated water, comprising water supplying means, carbonic acid gas supplying means and a static mixer having 20 to 100 elements.
- 2. The equipment for producing the carbonated water according to claim 1, wherein the water supplying means comprises a water vessel and a plurality of circulation pumps for circulating water in the water vessel via the static mixer, and the plurality of the circulation pumps are connected in series.
- 3. The equipment for producing the carbonated water according to claim 2, wherein a gas-liquid separator is disposed downstream of the static mixer.
- 4. A process for producing carbonated water, wherein a carbonic acid gas is dissolved in water by supplying the water and the carbonic acid gas to a static mixer having 20 to 100 elements.
- 5. The process for producing the carbonated water according to claim 4, wherein a formula (1) is satisfied with a premise that a number of elements of the static mixer is N pieces, and a Reynolds number when a mixture of water and a carbonic acid gas flow in the static mixer is Re:

 $100,000 \le \text{Re} \times \text{N} \le 2,000,000 \dots (1)$.

6. The process for producing the carbonated water

according to any one of claims 4 and 5, wherein a formula (2) is satisfied with a premise that the carbonated water is produced by supplying the mixture of the water and the carbonic acid gas to the static mixer for only one time, a flow rate of the carbonic acid gas to be supplied is X (L/min) and a flow rate of the water to be supplied is Y (L/min):

 $0.5 \le X/Y \le 1.2 \dots (2)$.

7. The process for producing the carbonated water according to any one of claims 4 and 5, wherein a formula (3) is satisfied with a premise that the carbonated water is produced by circulating the water in a water vessel via the static mixer, the flow rate of the carbonic acid gas to be supplied is X (L/min) and the flow rate of the water to be supplied is Y (L/min):

 $0.3 \le X/Y \le 1.0 \dots (3)$.